EPA-HQ-2019-000-003665; 003668; 003783; 003793; 003794; 006582

Message

From: Heiser, Glen (G.A.) [gheiser@ford.com]

Sent: 3/20/2019 4:47:56 AM

To: Lourenco, Jackie@ARB [Jackie.Lourenco@arb.ca.gov]

CC: Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Fuentes, Mark@ARB [Mark.Fuentes@arb.ca.gov]; Pittel, Kimberly (K.L.) [kpittel@ford.com]; Savage, Justin A. [jsavage@sidley.com]; Hebert, Annette@ARB [annette.hebert@arb.ca.gov]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Cecere,

 $Ian@ARB\ [Ian.Cecere@arb.ca.gov];\ Yacoubian,\ Lisa@ARB\ [lisa.yacoubian@arb.ca.gov];\ Brooks,\ Phillip ARB\ [Ian.Cecere@arb.ca.gov];\ Brooks,\ Phillip ARB\ [Ian.Cecere@arb$

[/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=e89130d467df414390f076286d938815-Brooks, Phillip]; Belser, Evan

[/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=d9a0635c271a4bac9c20634e45083c66-Belser, Evan]

Subject: Re: Confidential Business Information: As Requested: Ford Roadload Test Plan

Sensitivity: Company Confidential

Thanks Jackie.

I'll set up a call to discuss with you, Lisa, and Linc on Wednesday to ensure we are aligned.

Best Regards,

Glen Heiser

Sent from my iPhone

On Mar 19, 2019, at 8:00 PM, Lourenco, Jackie@ARB < Jackie.Lourenco@arb.ca.gov> wrote:

Glen.

I do not know what Linc and you discussed, but I believe that CARB has not yet approved of your test plan. Staff just received the referenced procedures. We'll review them and give you comments shortly.



Jackie Lourenco Chief, NVEPB 626-450-6152

From: Heiser, Glen (G.A.) <<u>gheiser@ford.com</u>> Sent: Tuesday, March 19, 2019 10:41 AM

To: Bunker, Byron (bunker.byron@epa.gov) <bunker.byron@epa.gov>; Fuentes, Mark@ARB < Mark.Fuentes@arb.ca.gov>

Cc: Pittel, Kimberly (K.L.) < kpittel@ford.com; Savage, Justin A. ksisavage@sidley.com; Hebert, Annette@ARB ksisavage@sidley.com; Hebert, Annette@ARB

<Jackie.Lourenco@arb.ca.gov>; 'Wehrly, Linc' <wehrly.linc@epa.gov>; Cecere, lan@ARB

<lan.Cecere@arb.ca.gov>; Yacoubian, Lisa@ARB <lisa.yacoubian@arb.ca.gov>;

brooks.phillip@epamail.epa.gov; Belser.Evan@epa.gov

Subject: Confidential Business Information: As Requested: Ford Roadload Test Plan

Sensitivity: Confidential

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Confidential Business Information

Byron and Mark,

Please find attached the follow-up to our meeting last Friday, as promised. I will keep Linc Wehrly and Lisa Yacoubian apprised of the testing progress as discussed in the meeting.

Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512 <image003.png>

From: Lourenco, Jackie@ARB [Jackie.Lourenco@arb.ca.gov]

Sent: 3/20/2019 12:00:22 AM

To: Heiser, Glen (G.A.) [gheiser@ford.com]; Bunker, Byron [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]; Fuentes, Mark@ARB

[Mark.Fuentes@arb.ca.gov]

CC: Pittel, Kimberly (K.L.) [kpittel@ford.com]; Savage, Justin A. [jsavage@sidley.com]; Hebert, Annette@ARB

[annette.hebert@arb.ca.gov]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Cecere, Ian@ARB

[Ian.Cecere@arb.ca.gov]; Yacoubian, Lisa@ARB [lisa.yacoubian@arb.ca.gov]; Brooks, Phillip

[/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=e89130d467df414390f076286d938815-Brooks, Phillip]; Belser, Evan

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Jackie Lourenco

626-450-6152

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<Mark.Fuentes@arb.ca.gov>

Cc: Pittel, Kimberly (K.L.) <kpittel@ford.com>; Savage, Justin A. <jsavage@sidley.com>; Hebert, Annette@ARB

<annette.hebert@arb.ca.gov>; Lourenco, Jackie@ARB <Jackie.Lourenco@arb.ca.gov>; 'Wehrly, Linc'

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sa.yacoubian@arb.ca.gov>; brooks.phillip@epamail.epa.gov; Belser.Evan@epa.gov

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Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE O: 313-59-40738 C: 313-348-4512





From: Heiser, Glen (G.A.) [gheiser@ford.com]

Sent: 4/4/2019 4:19:46 PM

To: Yacoubian, Lisa@ARB [lisa.yacoubian@arb.ca.gov]

CC: svharris@sidley.com; Cecere, Ian@ARB [Ian.Cecere@arb.ca.gov]; Pham, Allen@ARB [Allen.Pham@arb.ca.gov];

Fuentes, Mark@ARB [Mark.Fuentes@arb.ca.gov]; Lourenco, Jackie@ARB [Jackie.Lourenco@arb.ca.gov]; Binder, Gregory@ARB [gregory.binder@arb.ca.gov]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Bunker, Byron

[/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]

Subject: RE: CARB to Ford: Questions Concerning Road Load Issues

Lisa,

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Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





World's Most Ethical Companies

From: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Sent: Tuesday, April 2, 2019 1:57 PM

To: Heiser, Glen (G.A.) <gheiser@ford.com>

Cc: svharris@sidley.com; Cecere, Ian@ARB < Ian.Cecere@arb.ca.gov>; Pham, Allen@ARB < Allen.Pham@arb.ca.gov>; Fuentes, Mark@ARB < Mark.Fuentes@arb.ca.gov>; Lourenco, Jackie@ARB < Jackie.Lourenco@arb.ca.gov>; Binder, Gregory@ARB < gregory.binder@arb.ca.gov>; Wehrly, Linc (wehrly.linc@epa.gov) < wehrly.linc@epa.gov>; Bunker, Byron

(bunker.byron@epa.gov) <bunker.byron@epa.gov>

Subject: CARB to Ford: Questions Concerning Road Load Issues

Importance: High

Glen,

As promised, here are the questions from CARB. Once you have had the chance to look them over, can you please provide an estimated timeframe on when we can expect a response?

Thank you,

Lisa Yacoubian

Round 1 Questions Concerning Ford Road Load Issues

1.	CBI / Ex. 4						
	CBI / Ex. 4 e.g., pages 19 & 22). Does this suggests						
,	that even the Coastdown tests were unusual?						
2.	Can CARB see some specific's about the Road Load Data Manager (RDM), particularly the						
	underlying math and physics the RDM uses to model track coefficients?						
3.	What is the frequency of the coast down audits? What percentage of a model years test groups are audited?						
4.	CBI / Ex. 4 (Sidley page 13)?						
	. What is the source(s) of the variability in the brake drag measurement?						
6.	CBI / Ex. 4 Can Ford expand on what this test						
	entails?						
7.	When was the new brake dyno put into operation? Are there calibration logs?						
8. [CBI / Ex. 4 Couldn't you						
	get a more repeatable result of the effects of brake friction on a chassis dyno?						
9.	CBI/Ex. 4 Sidley page 16), which is a direct measurement,						
10.	CBI / Ex. 4						
11.	11. What criteria was used to select brake drag inputs (Sidley page 17)?						
12. What lab was engaged to conduct coastdown testing of MY 2019 Ranger?							
13.							
	CBI / Ex. 4						
	VDI/LA.T						

From: Heiser, Glen (G.A.) <<u>gheiser@ford.com</u>> Sent: Thursday, March 21, 2019 3:55 PM To: Yacoubian, Lisa@ARB lisa.yacoubian@arb.ca.gov>

Cc: svharris@sidley.com

Subject: Re: Confidential Business Information: As Requested: Ford Roadload Test Plan

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Lisa, Thank you for the reply. We will proceed.

Glen Heiser

Sent from my iPhone

On Mar 21, 2019, at 1:35 PM, Yacoubian, Lisa@ARB < iisa.yacoubian@arb.ca.gov> wrote:

Glen,

CARB technical staff had a chance to review the test plans you sent. At this time, you may proceed with the testing as outlined in the presentation dated March 14, 2019. Jackie's staff does have a few questions which we will send, through Ian Cecere, to you early next week.

Thank you,

Lisa

Lisa Yacoubian

Manager

Engine & Parts Enforcement Section

Enforcement Division

626.350.6403

<image001.png>

From: Heiser, Glen (G.A.) <gheiser@ford.com>

Sent: Tuesday, March 19, 2019 9:48 PM

To: Lourenco, Jackie@ARB < Jackie.Lourenco@arb.ca.gov>

Cc: Bunker, Byron (bunker.byron@epa.gov) <bunker.byron@epa.gov>; Fuentes, Mark@ARB < Mark.Fuentes@arb.ca.gov>; Pittel, Kimberly (K.L.) < kpittel@ford.com>; Savage, Justin A. < isavage@sidley.com>; Hebert, Annette@ARB < annette.hebert@arb.ca.gov>; Wehrly, Linc < wehrly.linc@epa.gov>; Cecere, lan@ARB < lan.Cecere@arb.ca.gov>; Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>; brooks.phillip@epamail.epa.gov; Belser.Evan@epa.gov

Subject: Re: Confidential Business Information: As Requested: Ford Roadload Test Plan

Sensitivity: Confidential

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Thanks Jackie.

I'll set up a call to discuss with you, Lisa, and Linc on Wednesday to ensure we are aligned.

Best Regards,

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626-450-6152

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Sent: Tuesday, March 19, 2019 10:41 AM

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Cc: Pittel, Kimberly (K.L.) <<u>kpittel@ford.com</u>>; Savage, Justin A.

<isavage@sidley.com>; Hebert, Annette@ARB <annette.hebert@arb.ca.gov>;

Lourenco, Jackie@ARB < Jackie.Lourenco@arb.ca.gov>; 'Wehrly, Linc'

<wehrly.linc@epa.gov>; Cecere, lan@ARB <lan.Cecere@arb.ca.gov>; Yacoubian,

Lisa@ARB < lisa.yacoubian@arb.ca.gov>; brooks.phillip@epamail.epa.gov;

Belser.Evan@epa.gov

Subject: Confidential Business Information: As Requested: Ford Roadload Test

Plan

Sensitivity: Confidential

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Confidential Business Information

Byron and Mark,

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Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE O: 313-59-40738 C: 313-348-4512

<image003.png>

From: Yacoubian, Lisa@ARB [lisa.yacoubian@arb.ca.gov]

Sent: 4/18/2019 4:34:16 PM

To: Harris, Susan V. [svharris@sidley.com]; Heiser, Glen (G.A.) [gheiser@ford.com]

CC: Cecere, Ian@ARB [Ian.Cecere@arb.ca.gov]; Pham, Allen@ARB [Allen.Pham@arb.ca.gov]; Fuentes, Mark@ARB

[Mark.Fuentes@arb.ca.gov]; Lourenco, Jackie@ARB [Jackie.Lourenco@arb.ca.gov]; Binder, Gregory@ARB

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(FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Bunker, Byron

[/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]

Subject: RE: CARB to Ford: Questions Concerning Road Load Issues

Ms. Harris.

I apologize! You indeed did leave me voicemails. I got a new phone and this one apparently doesn't flash a bright red light like my old phone to let me know I have new voicemails.

I will get back to you soon on a date for the meeting. Sorry for the delay on my end.

Thank you,

Lisa

From: Harris, Susan V. <svharris@sidley.com> Sent: Wednesday, April 17, 2019 7:23 PM

To: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>; Heiser, Glen (G.A.) < gheiser@ford.com>

Cc: Cecere, Ian@ARB <Ian.Cecere@arb.ca.gov>; Pham, Allen@ARB <Allen.Pham@arb.ca.gov>; Fuentes, Mark@ARB

<Mark.Fuentes@arb.ca.gov>; Lourenco, Jackie@ARB <Jackie.Lourenco@arb.ca.gov>; Binder, Gregory@ARB

<gregory.binder@arb.ca.gov>; Wehrly, Linc (wehrly.linc@epa.gov) <wehrly.linc@epa.gov>; Bunker, Byron

(bunker.byron@epa.gov) <bunker.byron@epa.gov>

Subject: RE: CARB to Ford: Questions Concerning Road Load Issues

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Ms. Yacoubian -

Thank you for reaching out. Per my voicemail messages to you from the end of last week and this week, we are working on developing responses to CARB's questions. We propose scheduling a meeting at CARB for some time in the next several weeks during which we can share our responses and provide an update on activities since our last meeting. To that end, please let us know what dates/times during the weeks of May 13th and 20th would work for you and your colleagues. We will plan to invite EPA to participate in the meeting as well. Thank you. Regards,

Susan

SUSAN V. HARRIS

Counsel

SIDLEY AUSTIN LLP +1 312 853 4663 svharris@sidley.com From: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Sent: Wednesday, April 17, 2019 3:48 PM

To: Heiser, Glen (G.A.) <gheiser@ford.com>; Harris, Susan V. <svharris@sidley.com>

Cc: Cecere, Ian@ARB < Ian.Cecere@arb.ca.gov>; Pham, Allen@ARB < Allen.Pham@arb.ca.gov>; Fuentes, Mark@ARB < Mark.Fuentes@arb.ca.gov>; Lourenco, Jackie@ARB < Jackie.Lourenco@arb.ca.gov>; Binder, Gregory@ARB < Gregory.binder@arb.ca.gov>; Wehrly, Linc (wehrly.linc@epa.gov) < wehrly.linc@epa.gov>;

Bunker, Byron (bunker.byron@epa.gov) <bunker.byron@epa.gov>
Subject: RE: CARB to Ford: Questions Concerning Road Load Issues

Ms. Harris.

I got an out-of-office reply from Glen that he is out until 4/29. Can you please let me know when we can expect the answers to our questions?

Thank you,

Lisa Yacoubian

From: Heiser, Glen (G.A.) <gheiser@ford.com>

Sent: Thursday, April 4, 2019 9:20 AM

To: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Cc: svharris@sidley.com; Cecere, Ian@ARB < lan.Cecere@arb.ca.gov>; Pham, Allen@ARB

Allen.Pham@arb.ca.gov; Fuentes, Mark@ARB < Mark.Fuentes@arb.ca.gov; Lourenco, Jackie@ARB < Jackie.Lourenco@arb.ca.gov; Binder, Gregory@ARB < Jackie.Lourenco@arb.ca.gov; Wehrly, Linc

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<bunker.byron@epa.gov>

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Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE O: 313-59-40738

C: 313-348-4512





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Cc: svharris@sidley.com; Cecere, Ian@ARB <lan.Cecere@arb.ca.gov>; Pham, Allen@ARB

<a href="mailto: Allen.Pham@arb.ca.gov; Fuentes, Mark@ARB Mark.Fuentes@arb.ca.gov; Lourenco, Jackie@ARB Jackie.Lourenco@arb.ca.gov; Binder, Gregory@ARB gregory.binder@arb.ca.gov; Wehrly, Linc

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<bush>

dunker.byron@epa.gov></br>

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Importance: High

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CBI/Ex.4

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Manager Engine & Parts Enforcement Section Enforcement Division 626.350.6403

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<Jackie.Lourenco@arb.ca.gov>; 'Wehrly, Linc' <wehrly.linc@epa.gov>;

Cecere, lan@ARB < lan.Cecere@arb.ca.gov >; Yacoubian, Lisa@ARB

sa.yacoubian@arb.ca.gov>; brooks.phillip@epamail.epa.gov;

Belser.Evan@epa.gov

Subject: Confidential Business Information: As Requested: Ford

Roadload Test Plan
Sensitivity: Confidential

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O: 313-59-40738 C: 313-348-4512 <image003.png>

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EPA-HQ-2019-000-003665; 003668; 003783; 003793; 003794; 006582

Message

From: Harris, Susan V. [svharris@sidley.com]

Sent: 4/18/2019 2:23:25 AM

To: Yacoubian, Lisa@ARB [lisa.yacoubian@arb.ca.gov]; Heiser, Glen (G.A.) [gheiser@ford.com]

CC: Cecere, Ian@ARB [Ian.Cecere@arb.ca.gov]; Pham, Allen@ARB [Allen.Pham@arb.ca.gov]; Fuentes, Mark@ARB

[Mark.Fuentes@arb.ca.gov]; Lourenco, Jackie@ARB [Jackie.Lourenco@arb.ca.gov]; Binder, Gregory@ARB

[gregory.binder@arb.ca.gov]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Bunker, Byron

[/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=ddf7bcf023d241a9a477a2dc75d5901c-Bunker, Byron]

Subject: RE: CARB to Ford: Questions Concerning Road Load Issues

Ms. Yacoubian -

Thank you for reaching out. Per my voicemail messages to you from the end of last week and this week, we are working on developing responses to CARB's questions. We propose scheduling a meeting at CARB for some time in the next several weeks during which we can share our responses and provide an update on activities since our last meeting. To that end, please let us know what dates/times during the weeks of May 13th and 20th would work for you and your colleagues. We will plan to invite EPA to participate in the meeting as well. Thank you. Regards,

SUSAN V. HARRIS

Counsel

SIDLEY AUSTIN LLP +1 312 853 4663 syharris@sidley.com

From: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Sent: Wednesday, April 17, 2019 3:48 PM

To: Heiser, Glen (G.A.) <gheiser@ford.com>; Harris, Susan V. <svharris@sidley.com>

Cc: Cecere, lan@ARB <lan.Cecere@arb.ca.gov>; Pham, Allen@ARB <Allen.Pham@arb.ca.gov>; Fuentes, Mark@ARB <Mark.Fuentes@arb.ca.gov>; Lourenco, Jackie@ARB <Jackie.Lourenco@arb.ca.gov>; Binder, Gregory@ARB <gregory.binder@arb.ca.gov>; Wehrly, Linc (wehrly.linc@epa.gov) <wehrly.linc@epa.gov>;

Bunker, Byron (bunker.byron@epa.gov) <bunker.byron@epa.gov> **Subject:** RE: CARB to Ford: Questions Concerning Road Load Issues

Ms. Harris,

I got an out-of-office reply from Glen that he is out until 4/29. Can you please let me know when we can expect the answers to our questions?

Thank you,

Lisa Yacoubian

From: Heiser, Glen (G.A.) <gheiser@ford.com>

Sent: Thursday, April 4, 2019 9:20 AM

To: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Cc: svharris@sidley.com; Cecere, lan@ARB <lan.Cecere@arb.ca.gov>; Pham, Allen@ARB

<Allen.Pham@arb.ca.gov>; Fuentes, Mark@ARB <Mark.Fuentes@arb.ca.gov>; Lourenco, Jackie@ARB

<Jackie.Lourenco@arb.ca.gov>; Binder, Gregory@ARB <gregory.binder@arb.ca.gov>; Wehrly, Linc
(wehrly.linc@epa.gov) <wehrly.linc@epa.gov>; Bunker, Byron (bunker.byron@epa.gov)
<bunker.byron@epa.gov>

Subject: RE: CARB to Ford: Questions Concerning Road Load Issues

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Lisa.

Thanks for sharing these questions. Several of my key contacts in this space are out this week so it's a bit difficult to give you a timeline until early next week. My initial thought is we could target 2 weeks from Monday but let me confirm with Susan and other key stakeholders early next week.

Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE O: 313-59-40738

O: 313-59-40738 C: 313-348-4512





. World's Most Ethical Companies

From: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Sent: Tuesday, April 2, 2019 1:57 PM

To: Heiser, Glen (G.A.) <gheiser@ford.com>

Cc: syharris@sidley.com; Cecere, Ian@ARB <lan.Cecere@arb.ca.gov>; Pham, Allen@ARB

<a href="mailto:
| Fuentes, Mark@ARB < Mark.Fuentes@arb.ca.gov">
| Lourenco@arb.ca.gov
| Continued to the second of the sec

(wehrly.linc@epa.gov) < wehrly.linc@epa.gov>; Bunker, Byron (bunker.byron@epa.gov)

<bunker.byron@epa.gov>

Subject: CARB to Ford: Questions Concerning Road Load Issues

Importance: High

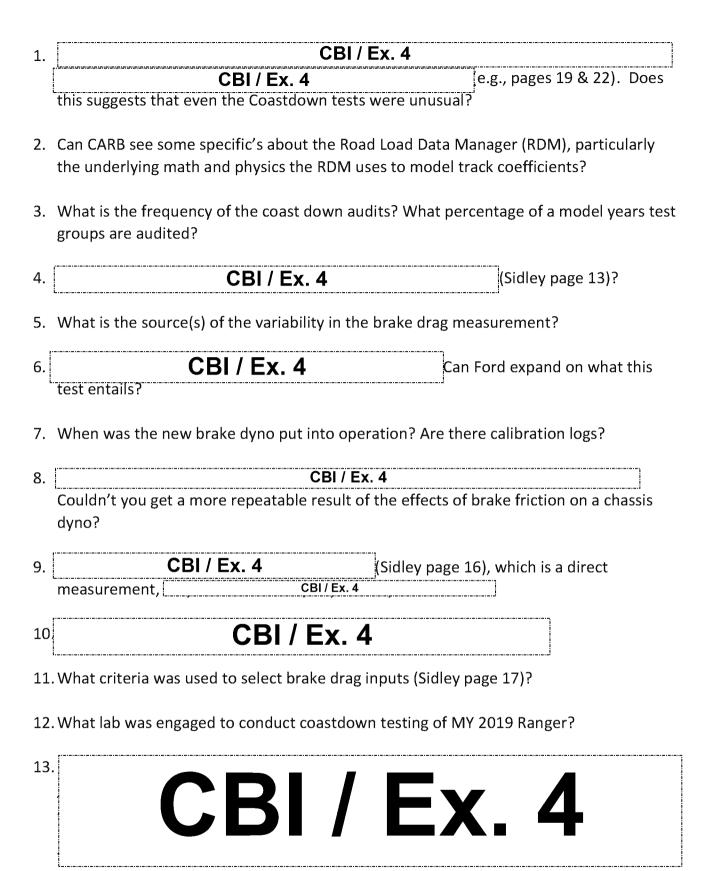
Glen,

As promised, here are the questions from CARB. Once you have had the chance to look them over, can you please provide an estimated timeframe on when we can expect a response?

Thank you,

Lisa Yacoubian

Round 1 Questions Concerning Ford Road Load Issues



From: Heiser, Glen (G.A.) <gheiser@ford.com>
Sent: Thursday, March 21, 2019 3:55 PM

To: Yacoubian, Lisa@ARB lisa.yacoubian@arb.ca.gov>

Cc: svharris@sidley.com

Subject: Re: Confidential Business Information: As Requested: Ford Roadload Test Plan

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Lisa, Thank you for the reply. We will proceed.

Glen Heiser

Sent from my iPhone

On Mar 21, 2019, at 1:35 PM, Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov> wrote:

Glen.

CARB technical staff had a chance to review the test plans you sent. At this time, you may proceed with the testing as outlined in the presentation dated March 14, 2019. Jackie's staff does have a few questions which we will send, through Ian Cecere, to you early next week.

Thank you,

Lisa

Lisa Yacoubían

Manager
Engine & Parts Enforcement Section
Enforcement Division
626,350,6403

<image001.png>

From: Heiser, Glen (G.A.) <gheiser@ford.com>

Sent: Tuesday, March 19, 2019 9:48 PM

To: Lourenco, Jackie@ARB < Jackie.Lourenco@arb.ca.gov>

Cc: Bunker, Byron (bunker.byron@epa.gov) <bunker.byron@epa.gov>; Fuentes, Mark@ARB <Mark.Fuentes@arb.ca.gov>; Pittel, Kimberly (K.L.) <kpittel@ford.com>; Savage, Justin A. <isavage@sidley.com>; Hebert, Annette@ARB <annette.hebert@arb.ca.gov>; Wehrly, Linc <wehrly.linc@epa.gov>; Cecere, lan@ARB <lan.Cecere@arb.ca.gov>; Yacoubian, Lisa@ARB sayacoubian@arb.ca.gov>; brooks.phillip@epamail.epa.gov; Belser.Evan@epa.gov

Subject: Re: Confidential Business Information: As Requested: Ford Roadload Test Plan

Sensitivity: Confidential

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Thanks Jackie.

I'll set up a call to discuss with you, Lisa, and Linc on Wednesday to ensure we are aligned.

Best Regards,

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Sent from my iPhone

On Mar 19, 2019, at 8:00 PM, Lourenco, Jackie@ARB < Jackie.Lourenco@arb.ca.gov> wrote:

Glen

I do not know what Linc and you discussed, but I believe that CARB has not yet approved of your test plan. Staff just received the referenced procedures. We'll review them and give you comments shortly.

Jackie Lourenco Chief, NVEPB 626-450-6152

<image001.png>

From: Heiser, Glen (G.A.) <<u>gheiser@ford.com</u>> Sent: Tuesday, March 19, 2019 10:41 AM

To: Bunker, Byron (bunker.byron@epa.gov) <bunker.byron@epa.gov>;

Fuentes, Mark@ARB < Mark.Fuentes@arb.ca.gov>

Cc: Pittel, Kimberly (K.L.) <kpittel@ford.com>; Savage, Justin A.

<jsavage@sidley.com>; Hebert, Annette@ARB

<annette.hebert@arb.ca.gov>; Lourenco, Jackie@ARB

<Jackie.Lourenco@arb.ca.gov>; 'Wehrly, Linc' <wehrly.linc@epa.gov>;

Cecere, Ian@ARB < Ian.Cecere@arb.ca.gov >; Yacoubian, Lisa@ARB

sa.yacoubian@arb.ca.gov>; brooks.phillip@epamail.epa.gov;

Belser.Evan@epa.gov

Subject: Confidential Business Information: As Requested: Ford

Roadload Test Plan **Sensitivity:** Confidential

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Confidential Business Information

Byron and Mark,

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Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512 <image003.png>

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EPA-HQ-2019-000-003665; 003668; 003783; 003793; 003794; 006582

Message

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Sent: 4/17/2019 8:48:02 PM

To: Heiser, Glen (G.A.) [gheiser@ford.com]; svharris@sidley.com

CC: Cecere, Ian@ARB [Ian.Cecere@arb.ca.gov]; Pham, Allen@ARB [Allen.Pham@arb.ca.gov]; Fuentes, Mark@ARB

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Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





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Subject: CARB to Ford: Questions Concerning Road Load Issues

Importance: High

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Thank you,

Lisa Yacoubian

Round 1 Questions Concerning Ford Road Load Issues

1.	CBI / Ex. 4					
	CBI/Ex. 4	e.g., pages 19 & 22). Does th	nis suggests			
	that even the Coastdown tests were unusual?					
2.	Can CARB see some specific's about the Road Load Data Manager (RDM), particularly the underlying math and physics the RDM uses to model track coefficients?					
3.	What is the frequency of the coast down audits? What percentage of a model years test groups are audited?					
4.	CBI / Ex. 4	(Sidley page 13)?				
	1	i				
5.	What is the source(s) of the variability in the brake drag measurement?					
6.	CBI / Ex. 4	Can Ford expand on what	this test			
	entails?	· · · · · · · · · · · · · · · · · · ·				
7.	When was the new brake dyno put into operation? Are there calibration logs?					
8.	CBI / Ex. 4		Couldn't you			
	get a more repeatable result of the effects of brake	friction on a chassis dyno?	!			

9. CBI/Ex. 4 Sidley page 16), which is a direct measurement,

10. CBI/Ex. 4

- 11. What criteria was used to select brake drag inputs (Sidley page 17)?
- 12. What lab was engaged to conduct coastdown testing of MY 2019 Ranger?

CBI/Ex. 4

From: Heiser, Glen (G.A.) <gheiser@ford.com>
Sent: Thursday, March 21, 2019 3:55 PM

To: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

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Lisa

Lisa Yacoubian

Manager Engine & Parts Enforcement Section Enforcement Division 626.350.6403

<image001.png>

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Sensitivity: Confidential

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Sent from my iPhone

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Cc: Pittel, Kimberly (K.L.) < kpittel@ford.com; Savage, Justin A.

<jsavage@sidley.com>; Hebert, Annette@ARB <annette.hebert@arb.ca.gov>;

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<wehrly.linc@epa.gov>; Cecere, lan@ARB <lan.Cecere@arb.ca.gov>; Yacoubian,

Lisa@ARB < lisa.yacoubian@arb.ca.gov>; brooks.phillip@epamail.epa.gov; Belser.Evan@epa.gov

Culsiant Confidentia

Subject: Confidential Business Information: As Requested: Ford Roadload Test

Plan

Sensitivity: Confidential

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Confidential Business Information

Byron and Mark,

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Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512 <image003.png> EPA-HQ-2019-000-003665; 003668; 003783; 003793; 003794; 006582

Message

From: Yacoubian, Lisa@ARB [lisa.yacoubian@arb.ca.gov]

Sent: 6/3/2019 4:54:02 PM

To: Heiser, Glen (G.A.) [gheiser@ford.com]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]

CC: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

Glen,

Can you please forward an electronic copy of last week's meeting presentation?

Thank you,

Lisa

From: Heiser, Glen (G.A.) <gheiser@ford.com> Sent: Wednesday, May 8, 2019 2:39 PM

To: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>; 'Wehrly, Linc' < wehrly.linc@epa.gov>

Cc: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

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Thanks Lisa.

To clarify, this is intended to be a small meeting of the single points of contact identified at the last meeting. I thought that was you, Linc and I. If it's a CARB cert rep, let me know and we can switch to that.

A meeting with the broader teams is targeted for the end of May.

Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





World's Most Ethical Companies

From: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Sent: Wednesday, May 8, 2019 5:36 PM

To: Heiser, Glen (G.A.) <gheiser@ford.com>; 'Wehrly, Linc' <wehrly.linc@epa.gov>

Cc: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

Since I'm an enforcement manager, I'm checking with CARB cert staff on these possible times. I will attend also.

From: Heiser, Glen (G.A.) <gheiser@ford.com>
Sent: Wednesday, May 8, 2019 1:39 PM

To: 'Wehrly, Linc' <wehrly.linc@epa.gov>; Yacoubian, Lisa@ARB sa.yacoubian@arb.ca.gov>

Cc: svharris@sidley.com

Subject: Meeting Request: Ford Roadload Status

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Hi Lisa and Linc,

The 3 of us (Lisa, Linc, Glen) were identified as points of contact at the last meeting. I would like to share the coastdown results we have to date. Are both of you available for a quick call next Tuesday or Wednesday?

Tuesday, May 14, 12:00 PM Eastern or later Wednesday, May 15, 2:30 PM Eastern or later

Please let me know your availability and I will schedule a WebEx call.

Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





From: Heiser, Glen (G.A.) [gheiser@ford.com]

Sent: 5/8/2019 9:59:02 PM

To: Yacoubian, Lisa@ARB [lisa.yacoubian@arb.ca.gov]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative

Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]

CC: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

Sorry, going too fast... Got it!

Kind regards.

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





World's Most Ethical Companies

From: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Sent: Wednesday, May 8, 2019 5:45 PM

To: Heiser, Glen (G.A.) <gheiser@ford.com>; 'Wehrly, Linc' <wehrly.linc@epa.gov>

Cc: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

Wednesday works for CARB. 2:30pm EST

From: Heiser, Glen (G.A.) <<u>gheiser@ford.com</u>> Sent: Wednesday, May 8, 2019 1:39 PM

To: 'Wehrly, Linc' <wehrly.linc@epa.gov>; Yacoubian, Lisa@ARB lisa.yacoubian@arb.ca.gov>

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Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





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Sent: 5/8/2019 9:58:33 PM

To: Yacoubian, Lisa@ARB [lisa.yacoubian@arb.ca.gov]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative

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CC: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

Perfect, thanks!

Will those time blocks work for you?

Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





World's Most Ethical Companies

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Sent: Wednesday, May 8, 2019 5:46 PM

To: Heiser, Glen (G.A.) <gheiser@ford.com>; 'Wehrly, Linc' <wehrly.linc@epa.gov>

Cc: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

Got it, I'll attend along with Allen Pham who works for me if that's okay. No cert reps.

From: Heiser, Glen (G.A.) <<u>gheiser@ford.com</u>> Sent: Wednesday, May 8, 2019 2:39 PM

To: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>; 'Wehrly, Linc' < wehrly.linc@epa.gov>

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From: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Sent: Wednesday, May 8, 2019 5:36 PM

To: Heiser, Glen (G.A.) <gheiser@ford.com>; 'Wehrly, Linc' <wehrly.linc@epa.gov>

Cc: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

Since I'm an enforcement manager, I'm checking with CARB cert staff on these possible times. I will attend also.

From: Heiser, Glen (G.A.) <<u>gheiser@ford.com</u>> Sent: Wednesday, May 8, 2019 1:39 PM

To: 'Wehrly, Linc' <wehrly.linc@epa.gov>; Yacoubian, Lisa@ARB sa.yacoubian@arb.ca.gov>

Cc: svharris@sidley.com

Subject: Meeting Request: Ford Roadload Status

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Lisa and Linc,

The 3 of us (Lisa, Linc, Glen) were identified as points of contact at the last meeting. I would like to share the coastdown results we have to date. Are both of you available for a quick call next Tuesday or Wednesday?

Tuesday, May 14, 12:00 PM Eastern or later Wednesday, May 15, 2:30 PM Eastern or later

Please let me know your availability and I will schedule a WebEx call.

Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





From: Heiser, Glen (G.A.) [gheiser@ford.com]

Sent: 5/8/2019 9:39:18 PM

To: Yacoubian, Lisa@ARB [lisa.yacoubian@arb.ca.gov]; Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative

Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]

CC: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

Thanks Lisa.

To clarify, this is intended to be a small meeting of the single points of contact identified at the last meeting. I thought that was you, Linc and I. If it's a CARB cert rep, let me know and we can switch to that.

A meeting with the broader teams is targeted for the end of May.

Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





World's Most Ethical Companies

From: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Sent: Wednesday, May 8, 2019 5:36 PM

To: Heiser, Glen (G.A.) <gheiser@ford.com>; 'Wehrly, Linc' <wehrly.linc@epa.gov>

Cc: svharris@sidley.com

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From: Heiser, Glen (G.A.) <<u>gheiser@ford.com</u>> Sent: Wednesday, May 8, 2019 1:39 PM

To: 'Wehrly, Linc' <wehrly.linc@epa.gov>; Yacoubian, Lisa@ARB sa.yacoubian@arb.ca.gov>

Cc: svharris@sidley.com

Subject: Meeting Request: Ford Roadload Status

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Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





From: Heiser, Glen (G.A.) [gheiser@ford.com]

Sent: 5/8/2019 8:38:52 PM

To: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]; Yacoubian, Lisa@ARB

[lisa.yacoubian@arb.ca.gov]

CC: svharris@sidley.com

Subject: Meeting Request: Ford Roadload Status

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Glen A. Heiser

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O: 313-59-40738 C: 313-348-4512





From: Heiser, Glen (G.A.) [gheiser@ford.com]

Sent: 5/6/2019 6:51:13 PM

To: Wehrly, Linc [/o=ExchangeLabs/ou=Exchange Administrative Group

(FYDIBOHF23SPDLT)/cn=Recipients/cn=64e5f31ccb4841018441b3bf074842d0-Wehrly, Linc]

Subject: May 30 Roadload Meeting with Ford

Hi Linc,

It looks like the meeting on May 30th will be at 12:30PM Eastern, 9:30 AM Pacific. I believe a meeting notice will come from Sidley but feel free to have Byron and other key stakeholders put a placeholder for that time.

Kind regards,

Glen A. Heiser

Manager, Emissions Certification, Homologation & Compliance Vehicle Homologation & Compliance, SE&SE

O: 313-59-40738 C: 313-348-4512





From: Wehrly, Linc [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP

(FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=64E5F31CCB4841018441B3BF074842D0-WEHRLY, LINC]

Sent: 5/9/2019 11:37:33 AM

To: Yacoubian, Lisa@ARB [lisa.yacoubian@arb.ca.gov]; Heiser, Glen (G.A.) [gheiser@ford.com]

CC: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

That works for me as well.

From: Yacoubian, Lisa@ARB < lisa.yacoubian@arb.ca.gov>

Sent: Wednesday, May 08, 2019 5:45 PM

To: Heiser, Glen (G.A.) <gheiser@ford.com>; Wehrly, Linc <wehrly.linc@epa.gov>

Cc: svharris@sidley.com

Subject: RE: Meeting Request: Ford Roadload Status

Wednesday works for CARB. 2:30pm EST

From: Heiser, Glen (G.A.) <<u>gheiser@ford.com</u>> Sent: Wednesday, May 8, 2019 1:39 PM

To: 'Wehrly, Linc' <wehrly.linc@epa.gov>; Yacoubian, Lisa@ARB lisa.yacoubian@arb.ca.gov>

Cc: svharris@sidley.com

Subject: Meeting Request: Ford Roadload Status

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